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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Hateboer et al.

Serial No.: 09/549,463

Filed: April 14, 2000

For: RECOMBINANT PROTEIN
PRODUCTION IN A HUMAN CELL

Confirmation No.: 8657

Examiner: R. Mitra

Group Art Unit: 1653

Attorney Docket No.: 2578-4038.1US

CERTIFICATE OF MAILING

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January 30, 2003
Date

Signature

Betty Vowles

Name (Type/Print)

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Commissioner for Patents
Washington, D.C. 20231

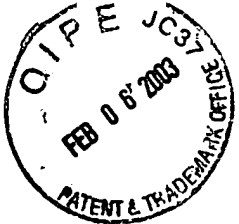
Sir:

Attached please find the formal drawings for this application.

Respectfully submitted,

Andrew F. Nilles
Registration No. 47,825
Attorney for Applicant(s)
TRASKBRITT, P.C.
P.O. Box 2550
Salt Lake City, Utah 84110-2550
Telephone: 801-532-1922

Date: January 30, 2003
AFN/bv
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TITLE: RECOMBINANT PROTEIN
PRODUCTION IN A HUMAN CELL

Inventor: Hateboer et al.

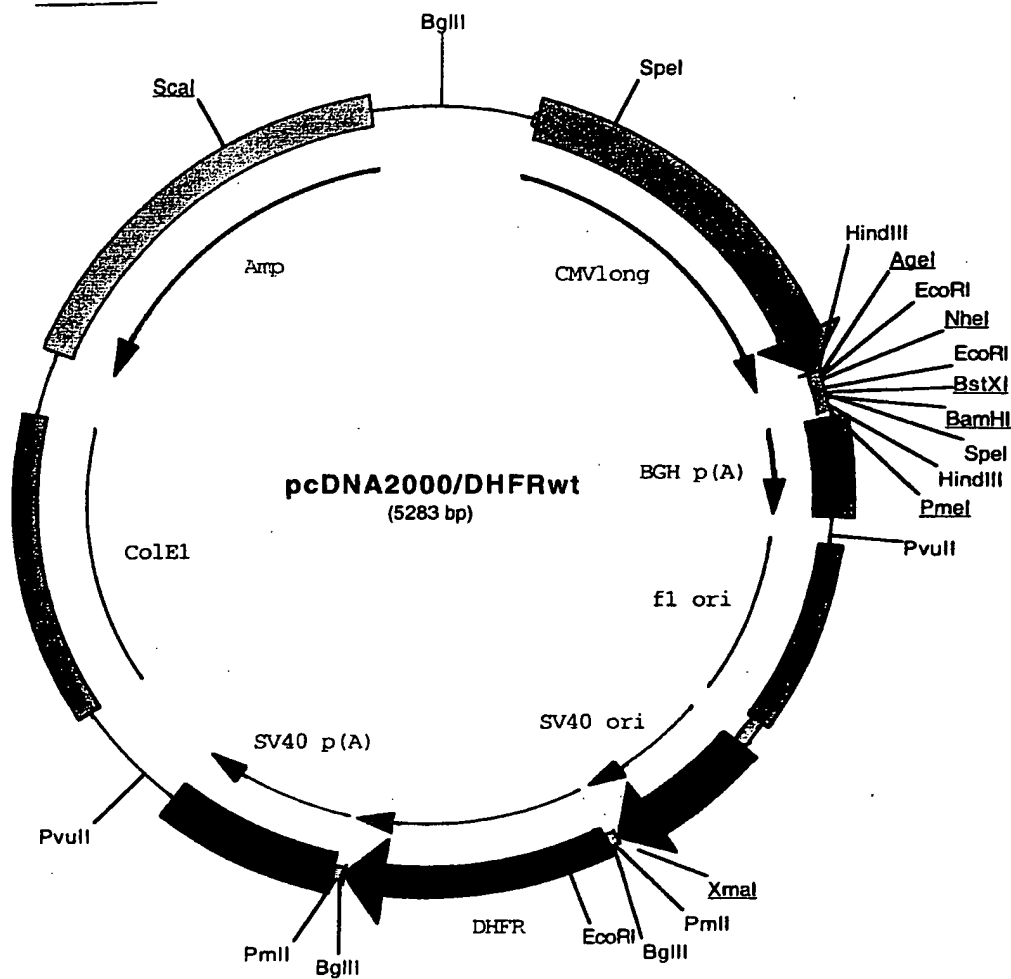
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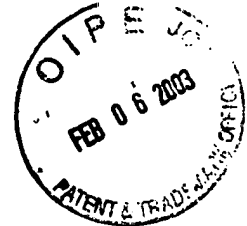
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FIGURE 1







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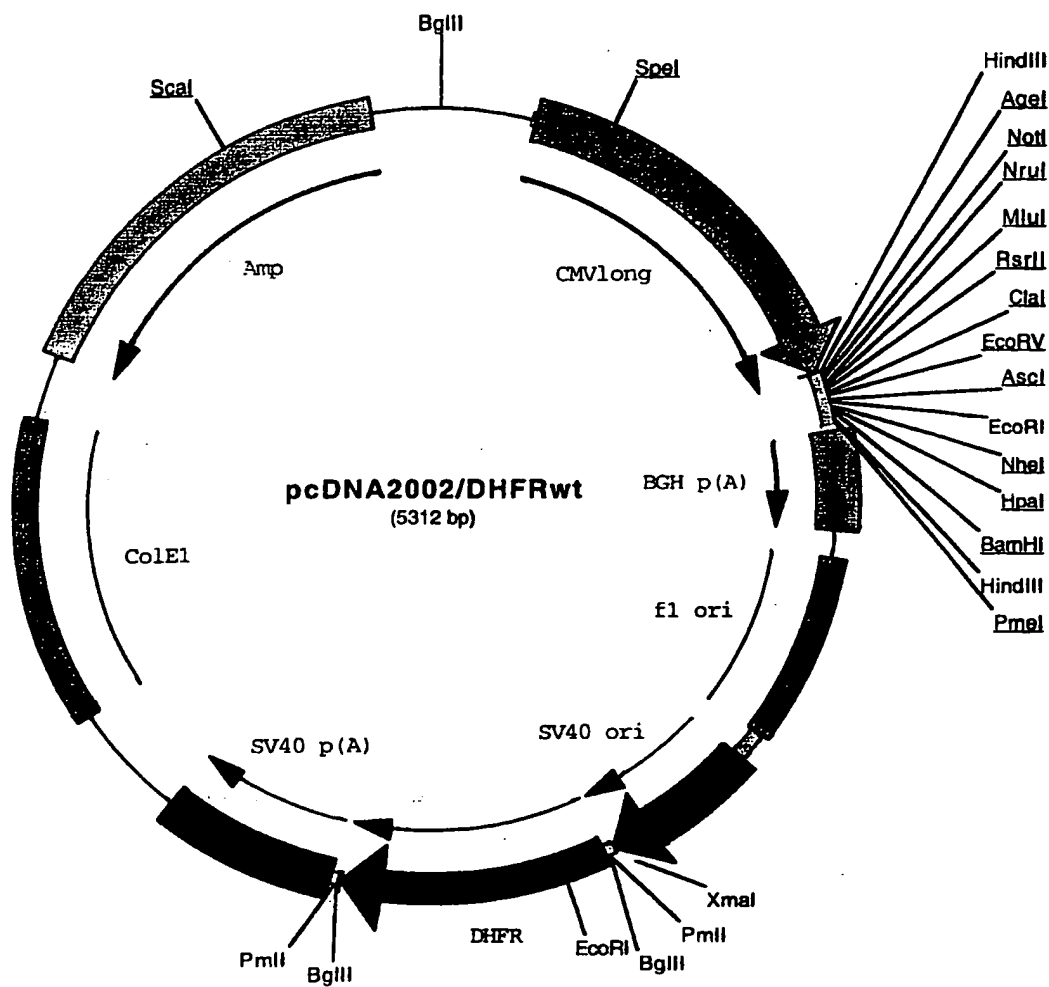
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FIGURE 3



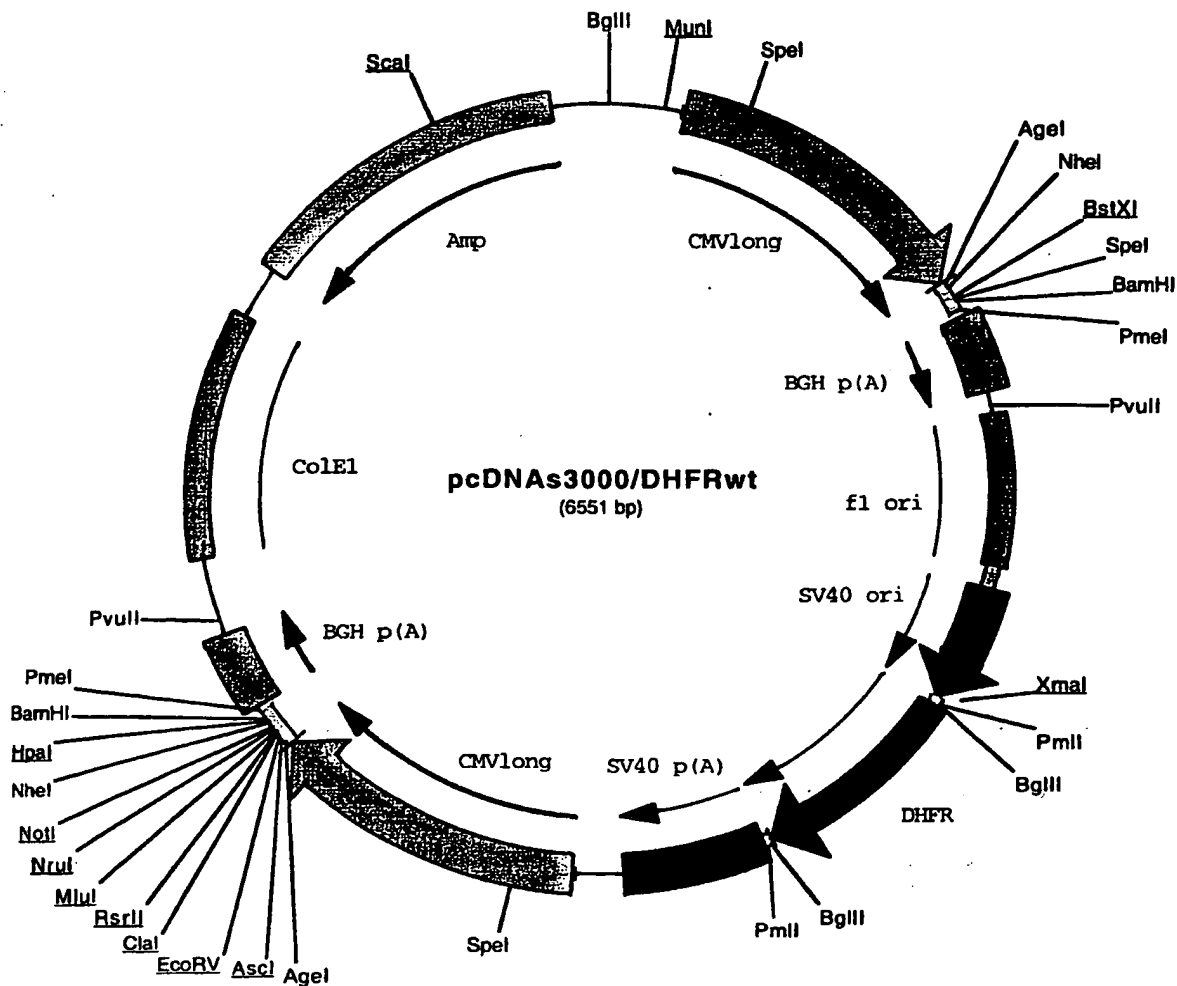


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FIGURE 4





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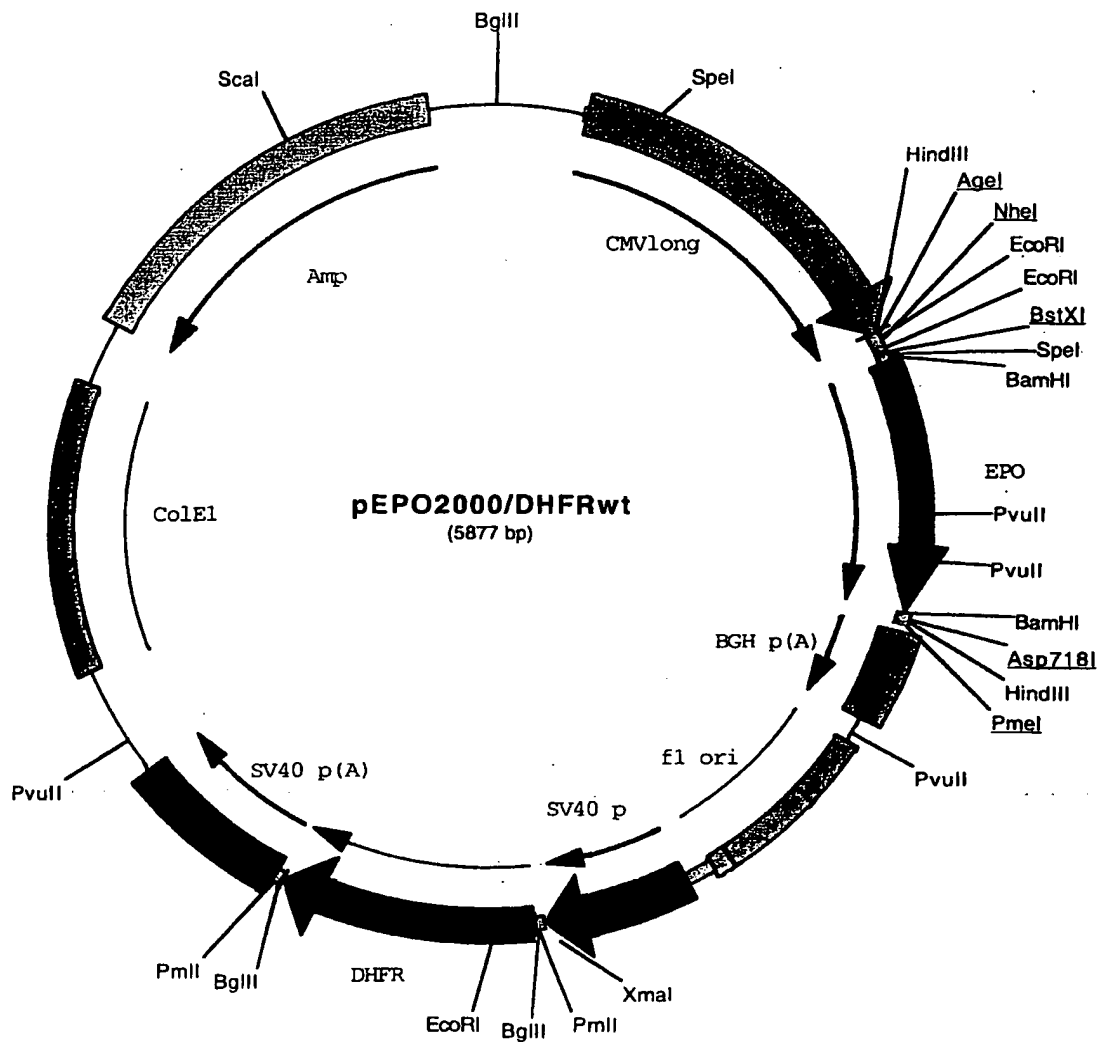
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FIGURE 5





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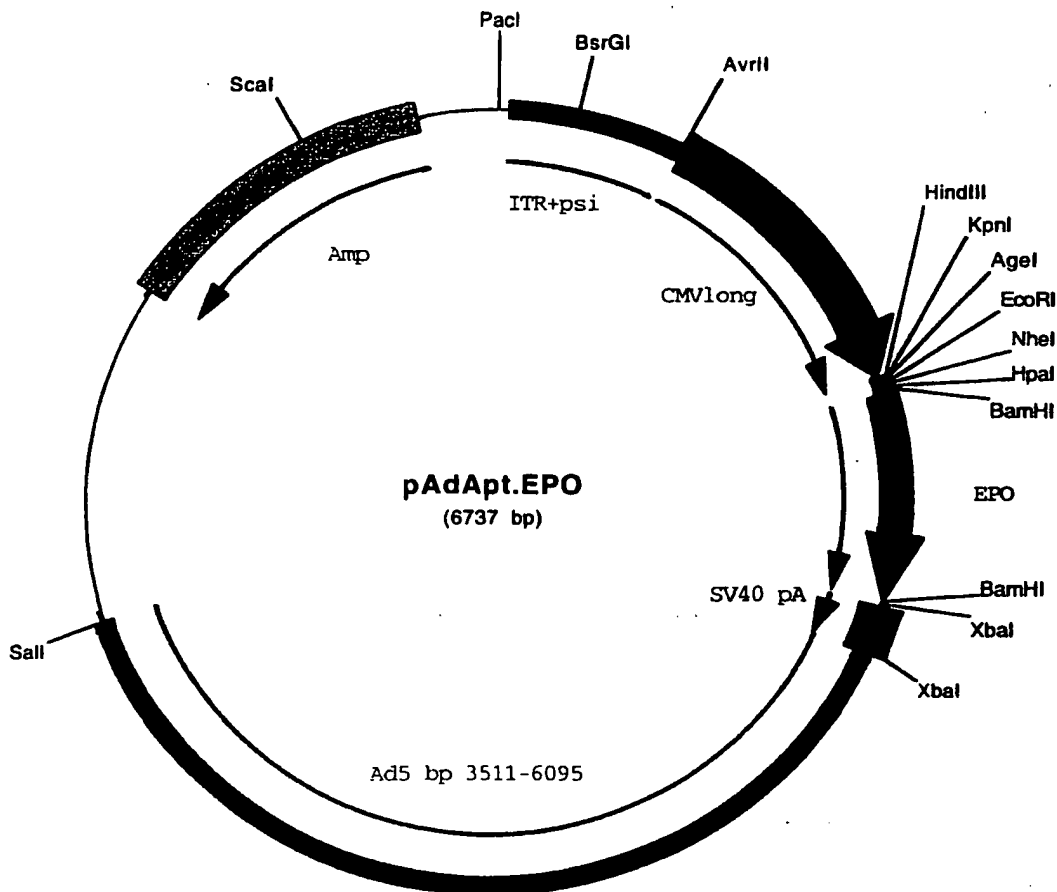
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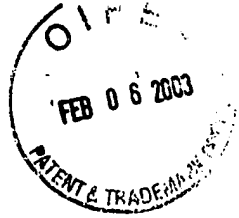
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FIGURE 6



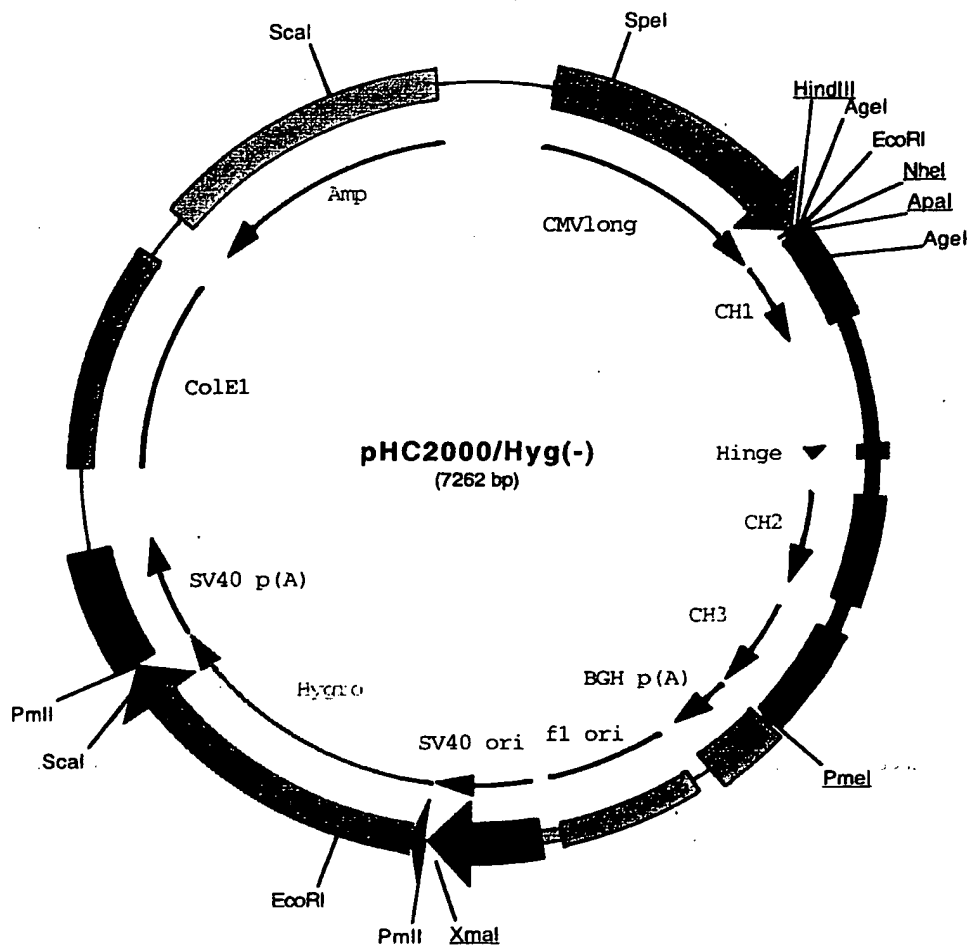


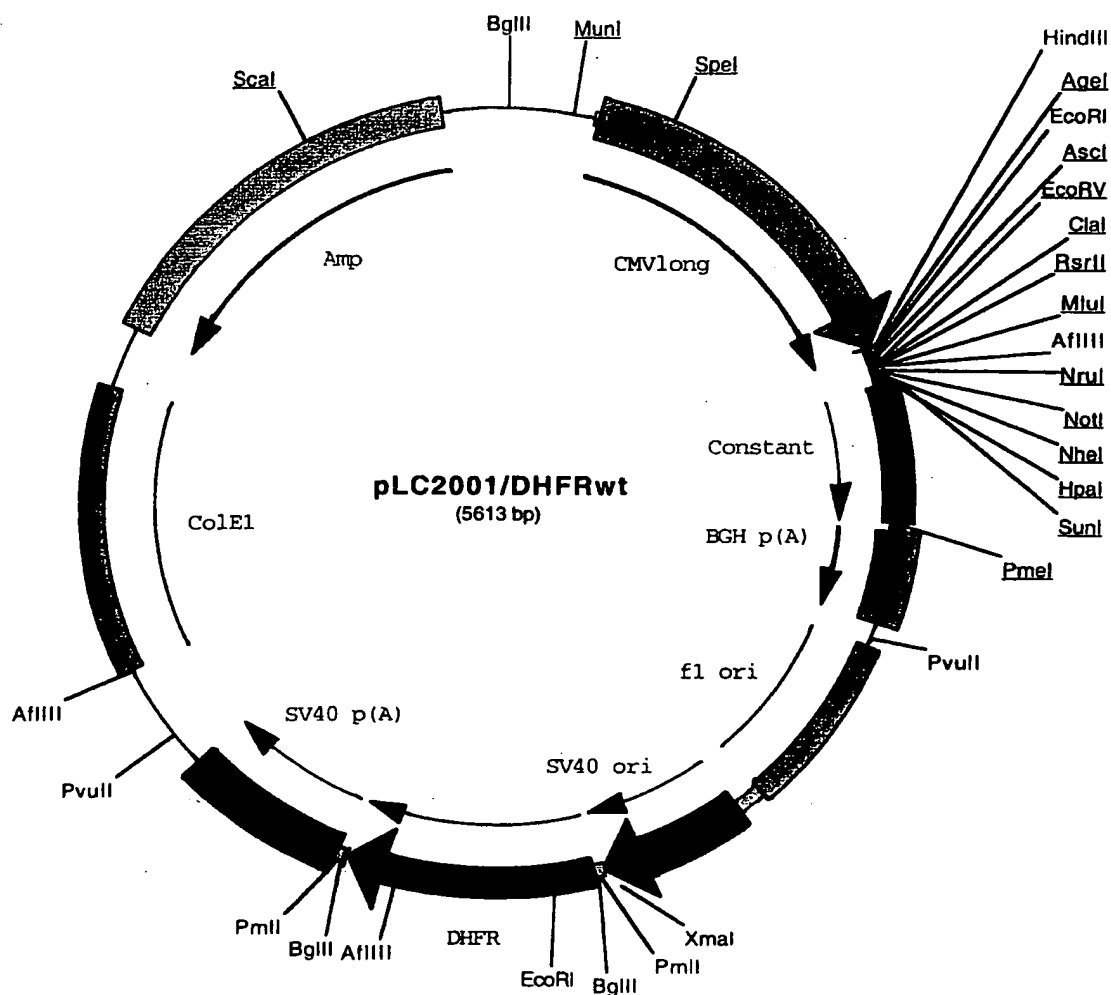
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FIGURE 7



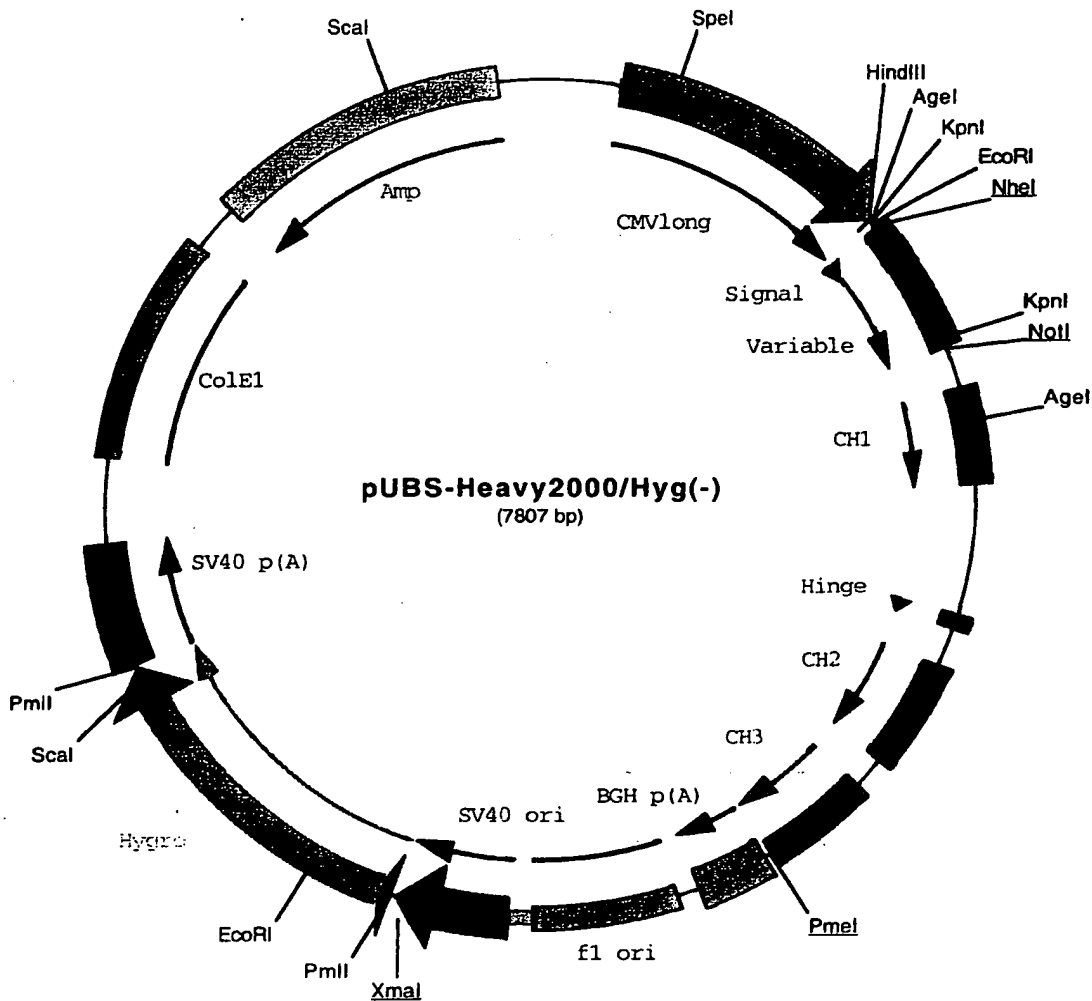




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FIGURE 9



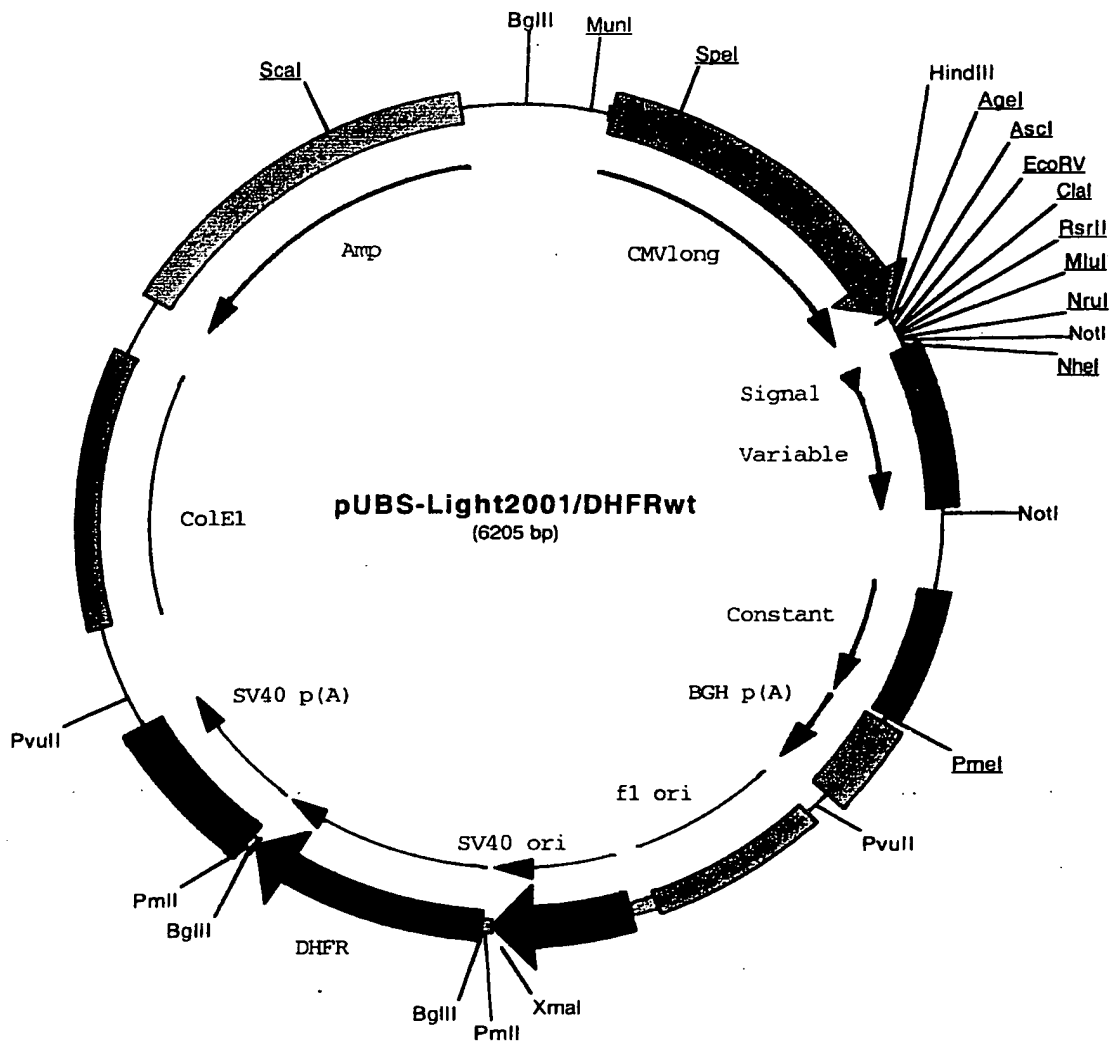


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FIGURE 10



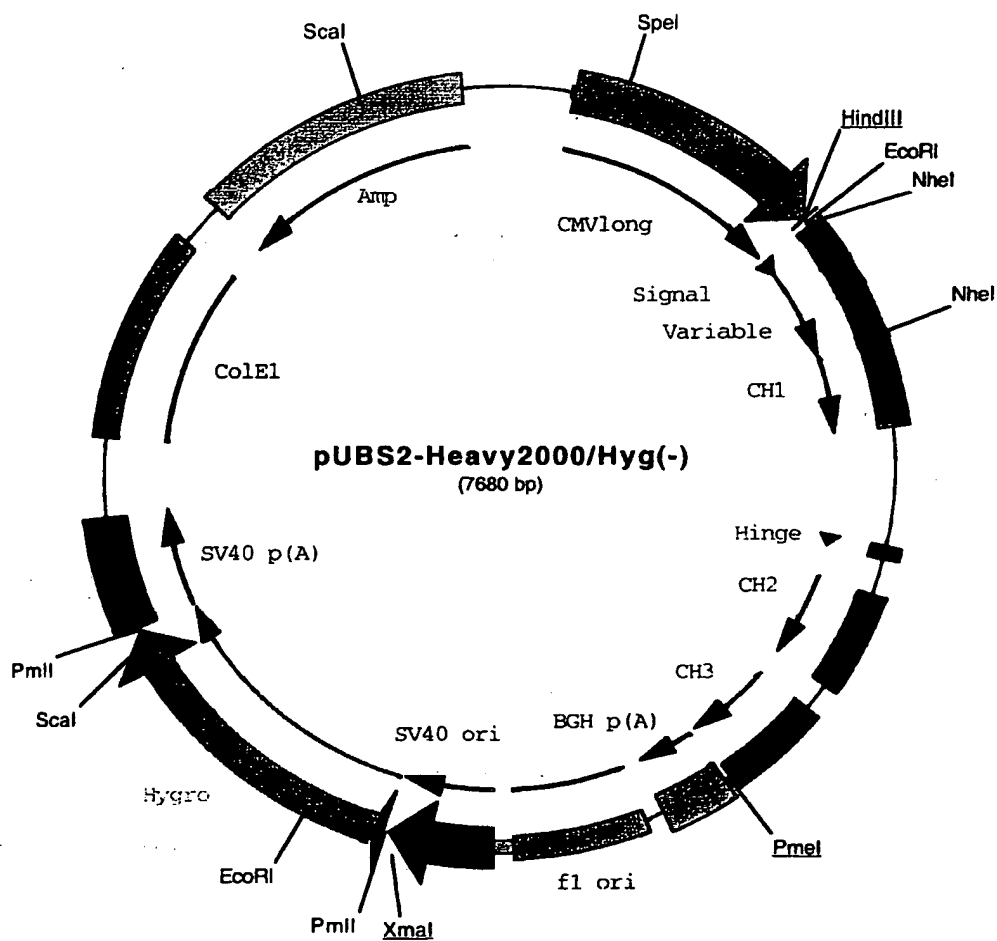


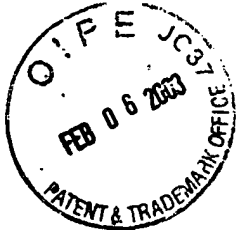
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FIGURE 11





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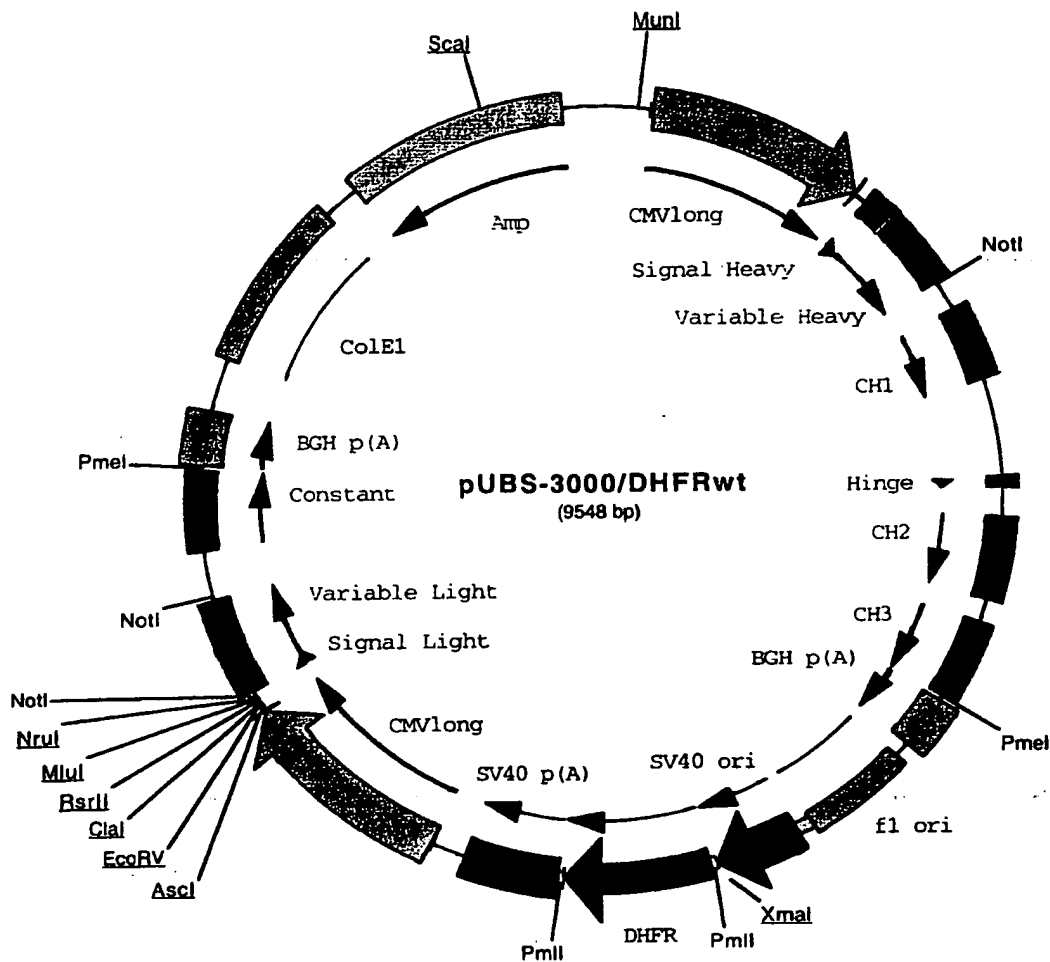
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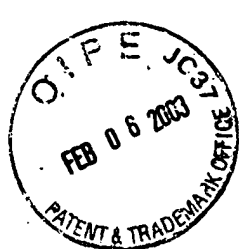
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FIGURE 13





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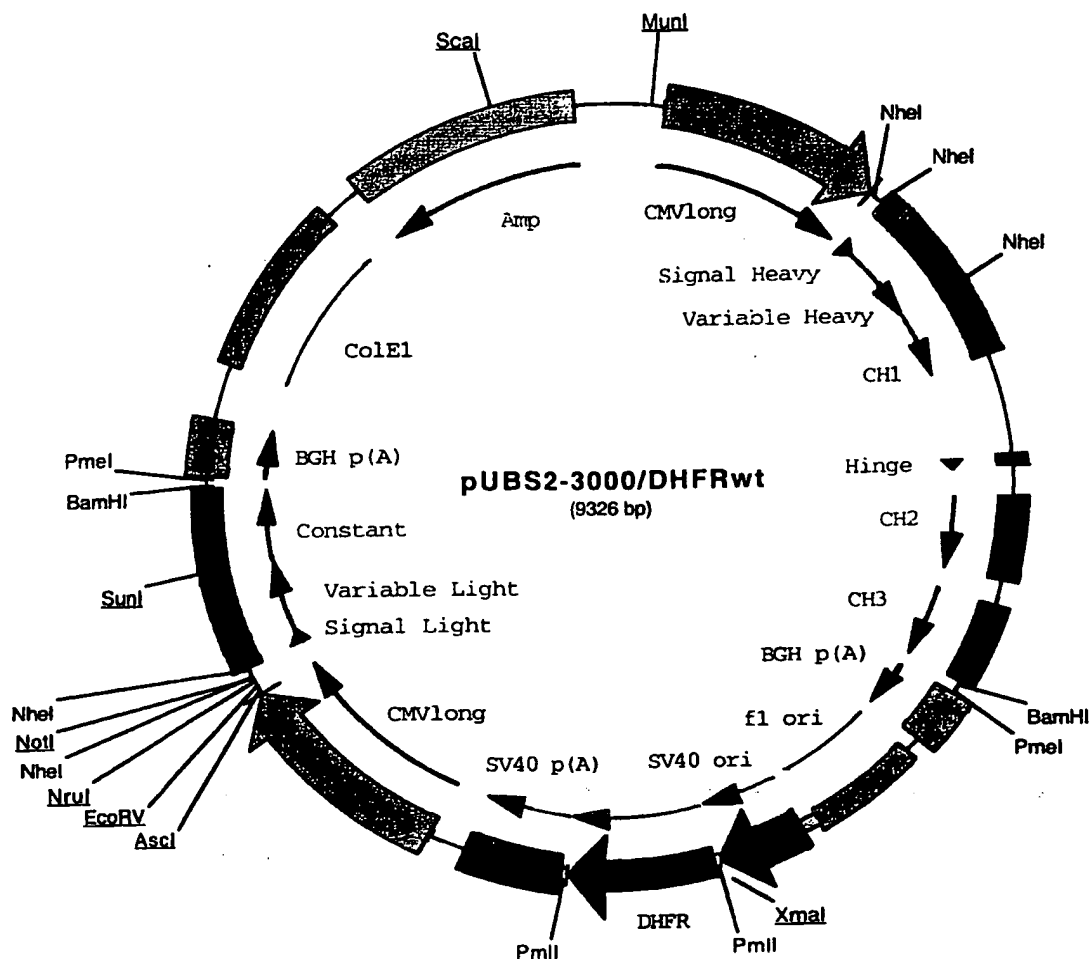
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FIGURE 14



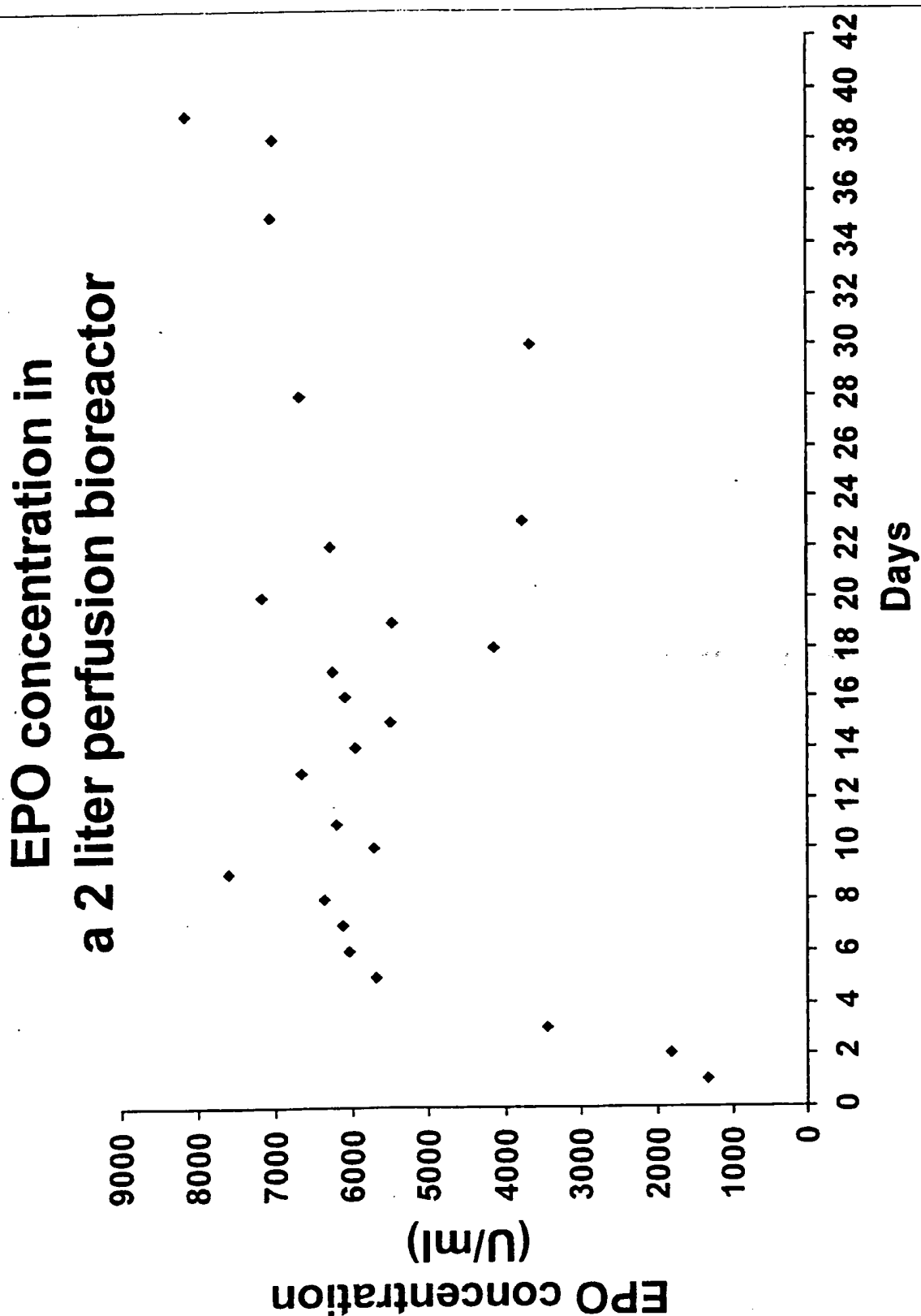


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FIGURE 15





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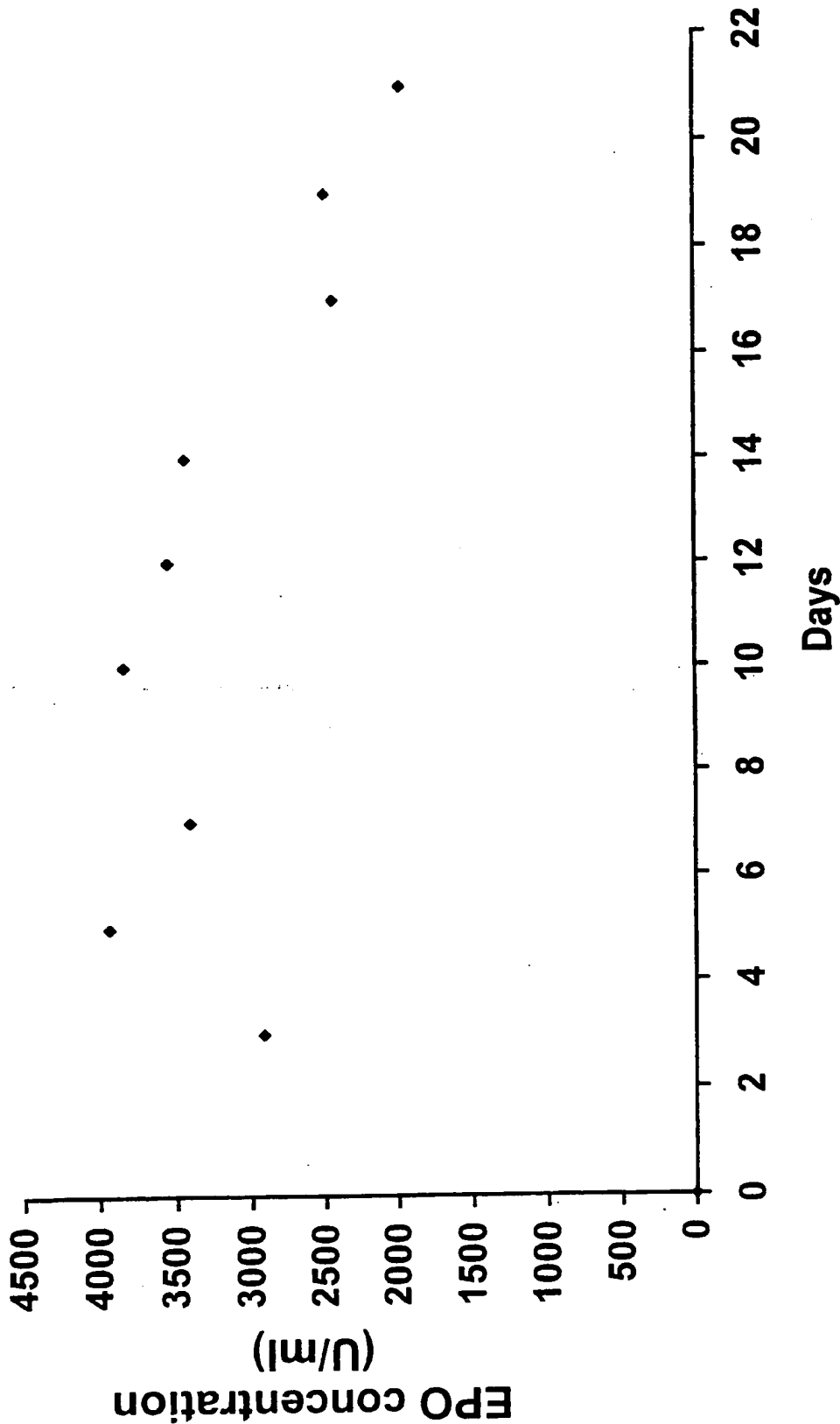
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FIGURE 16

**EPO concentration in
a 2 liter bioreactor (repeated batch)**



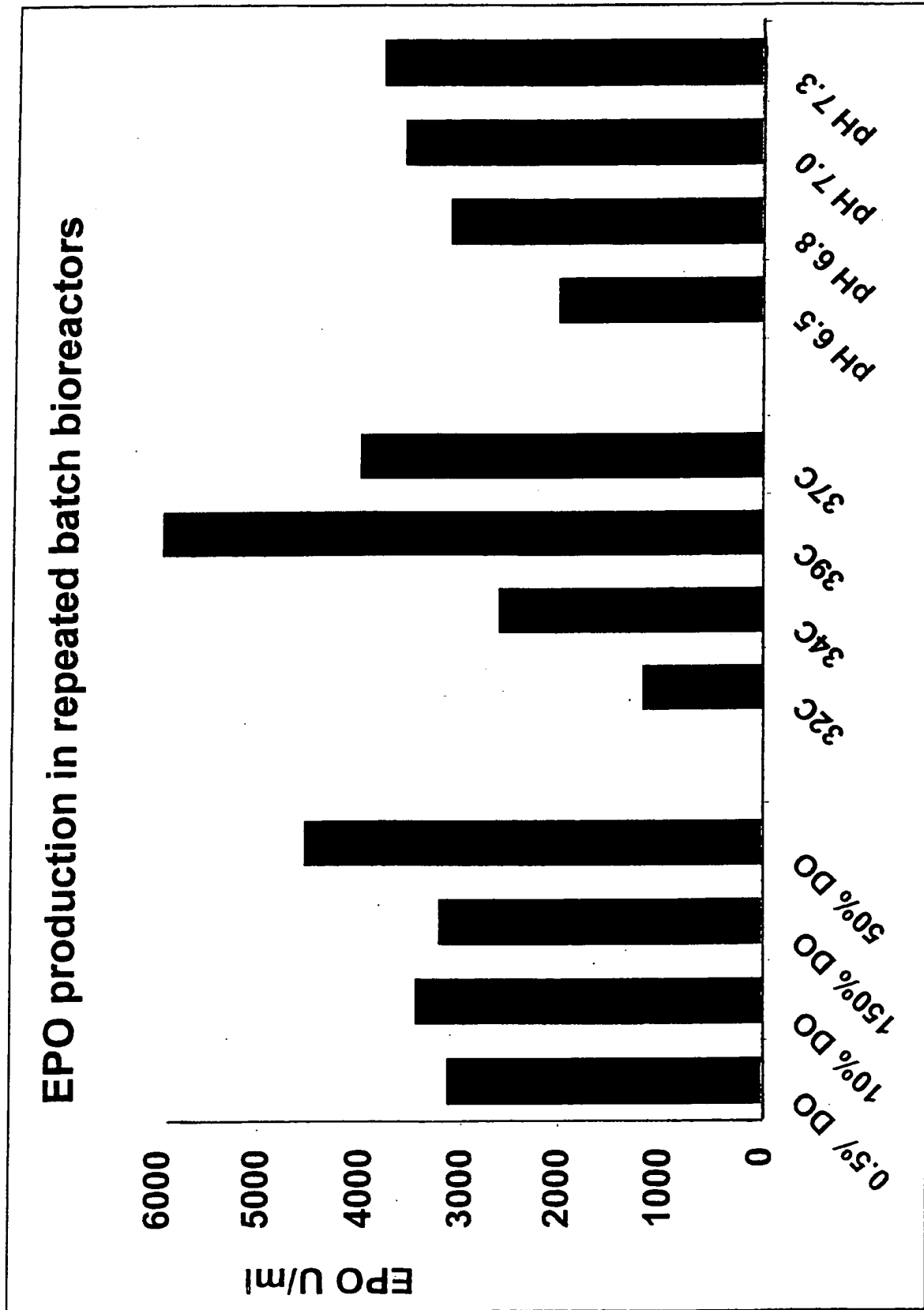


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FIGURE 17





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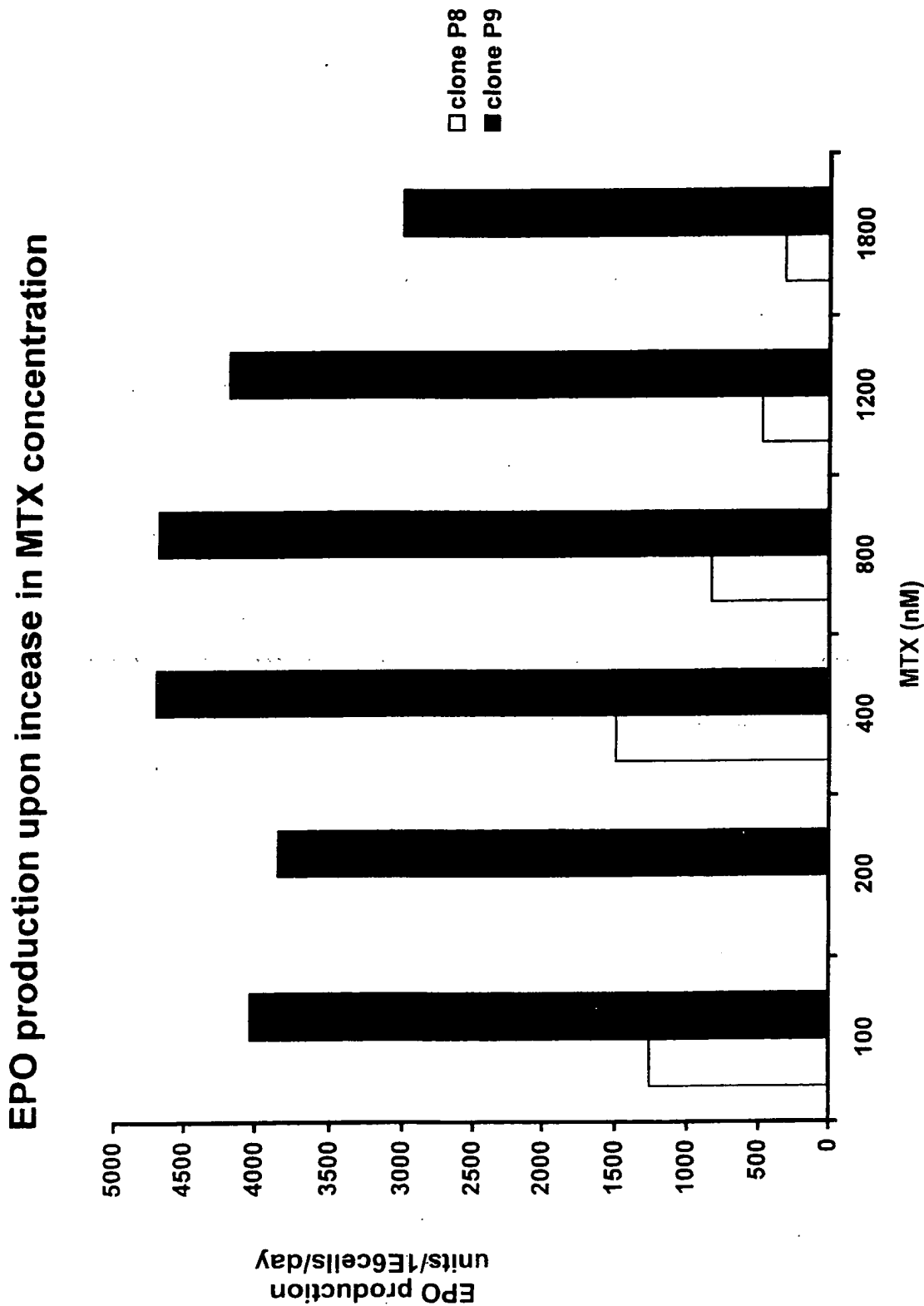
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FIGURE 18



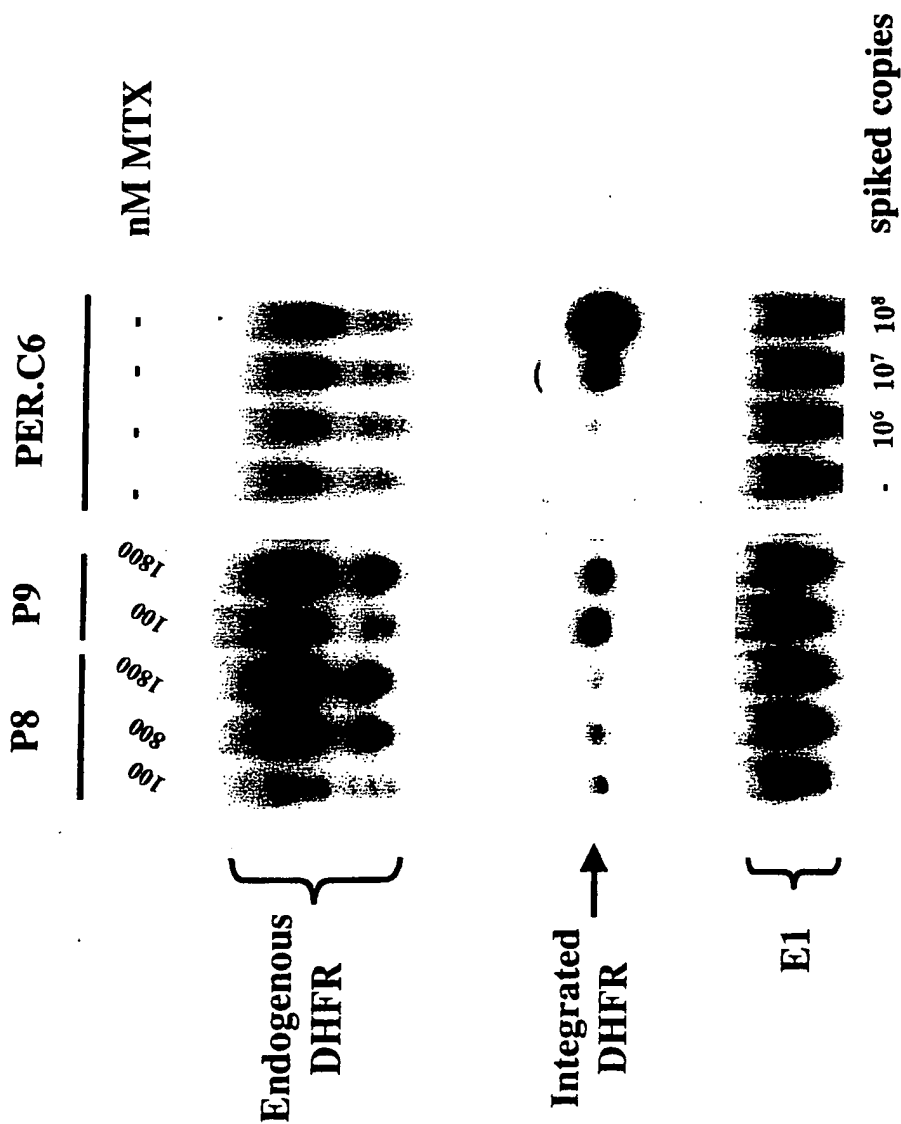


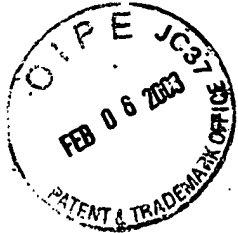
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FIGURE 19





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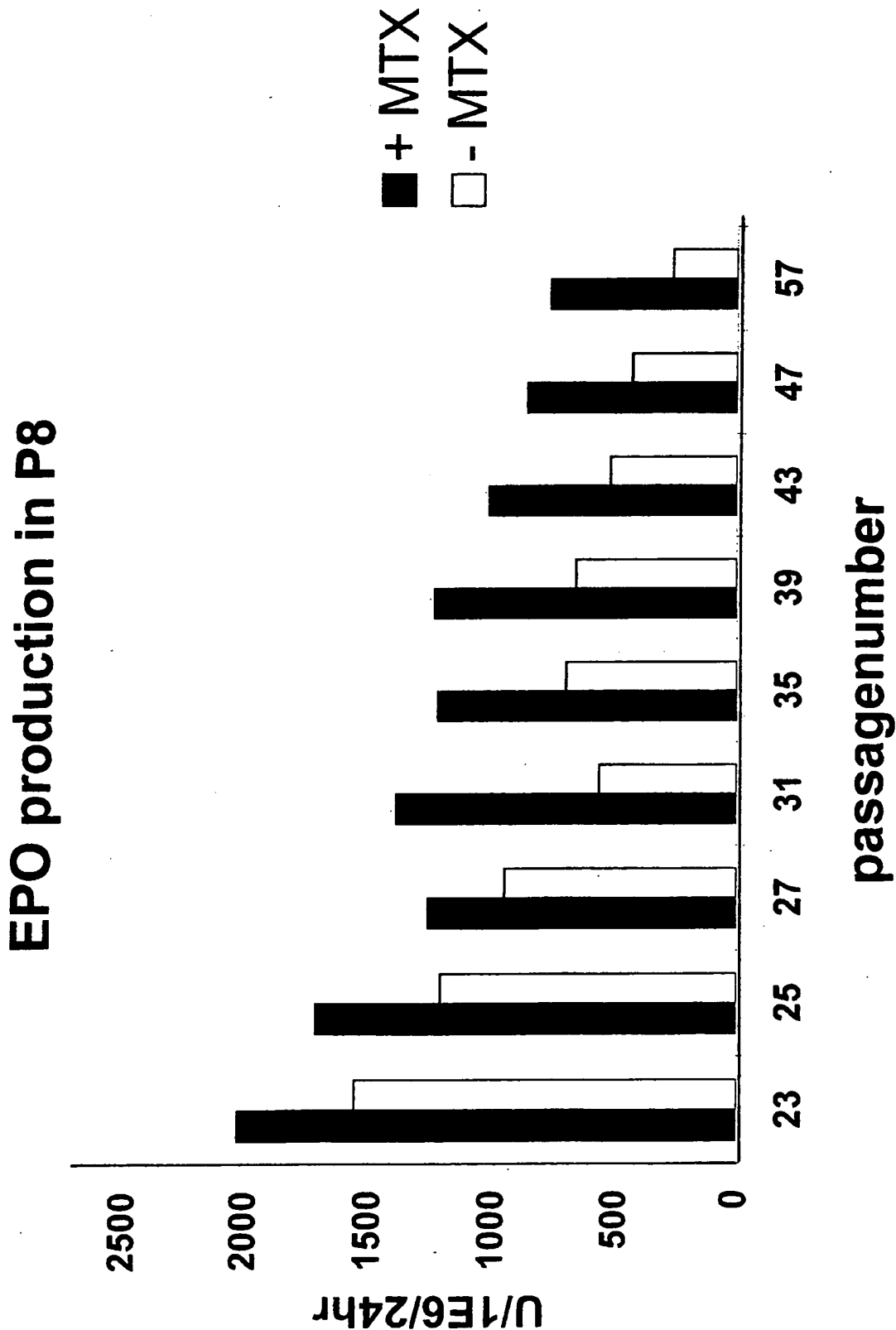
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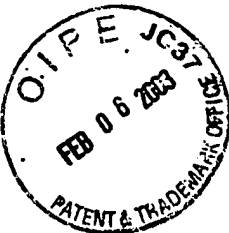
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FIGURE 20A



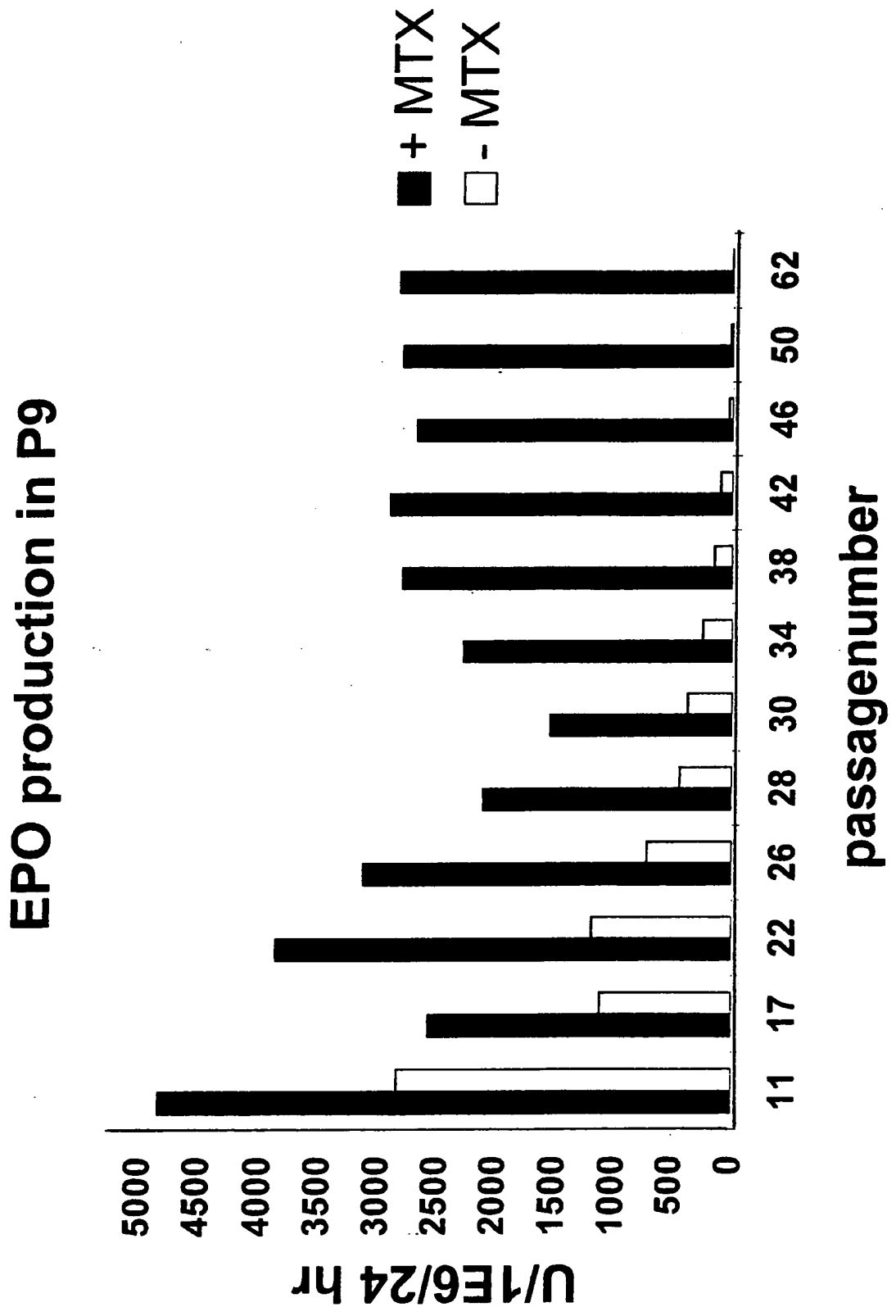


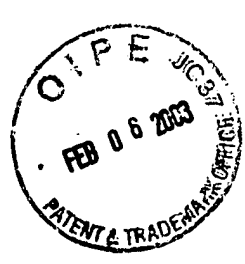
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FIGURE 20B



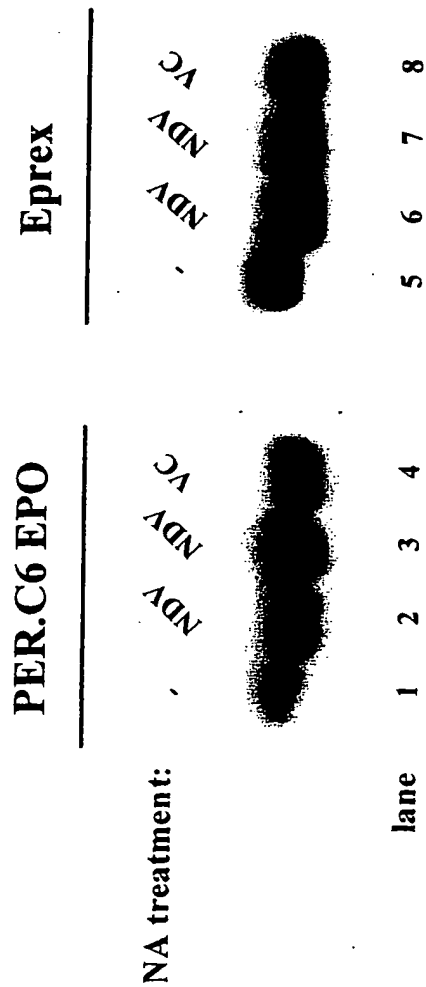


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FIGURE 21A

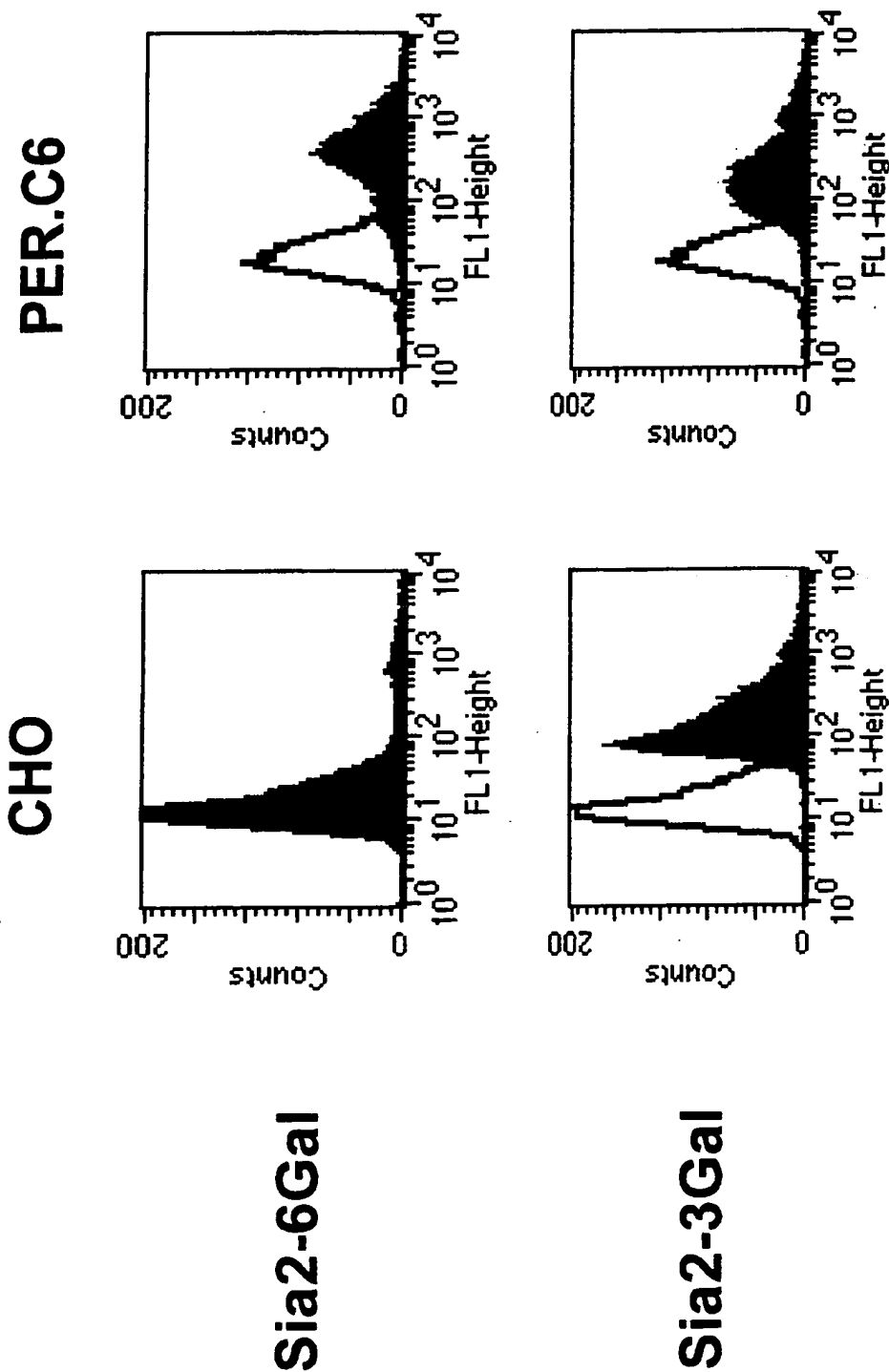




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FIGURE 21B





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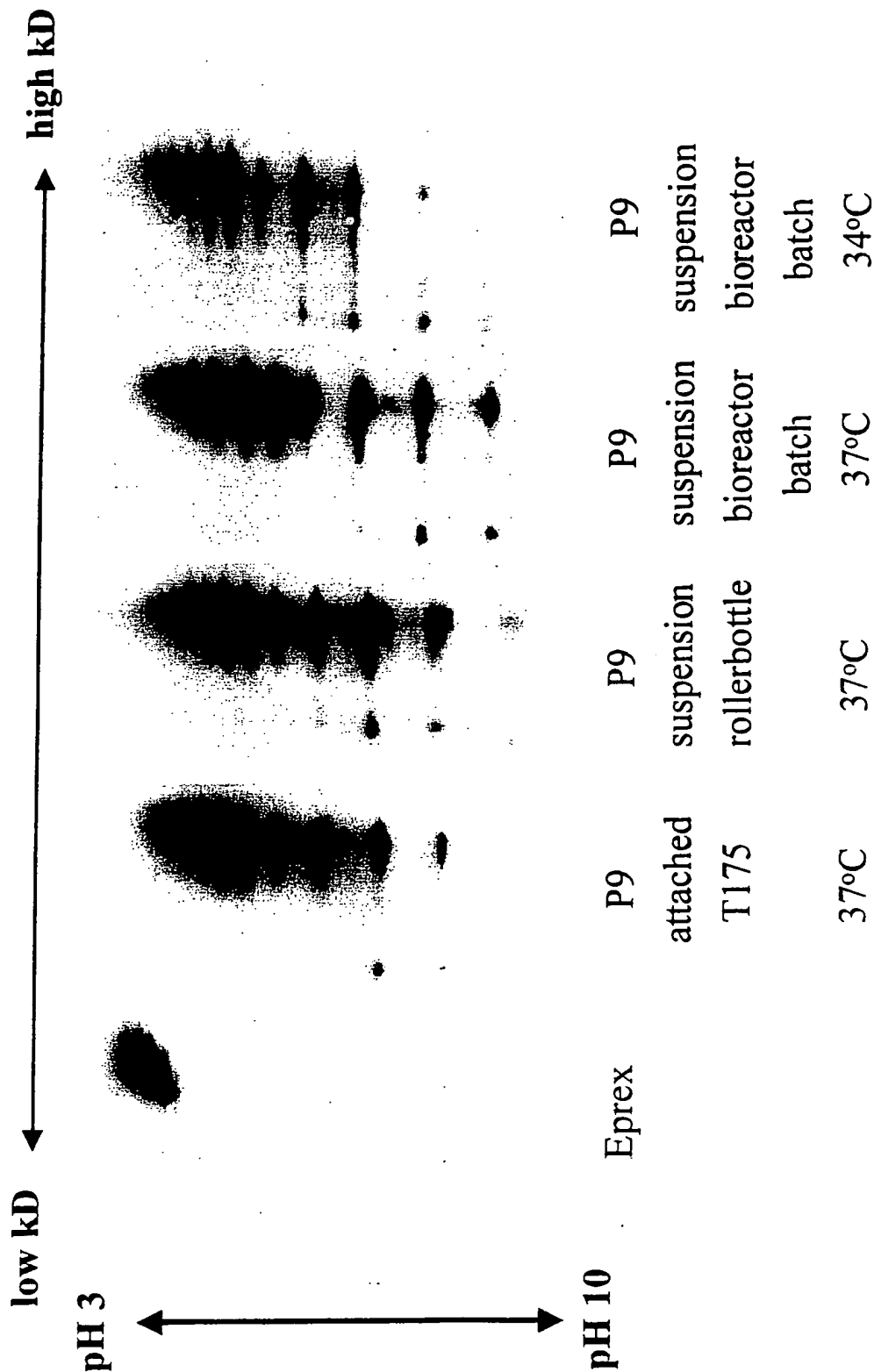
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FIGURE 22A

2D/western blot on recombinant EPO





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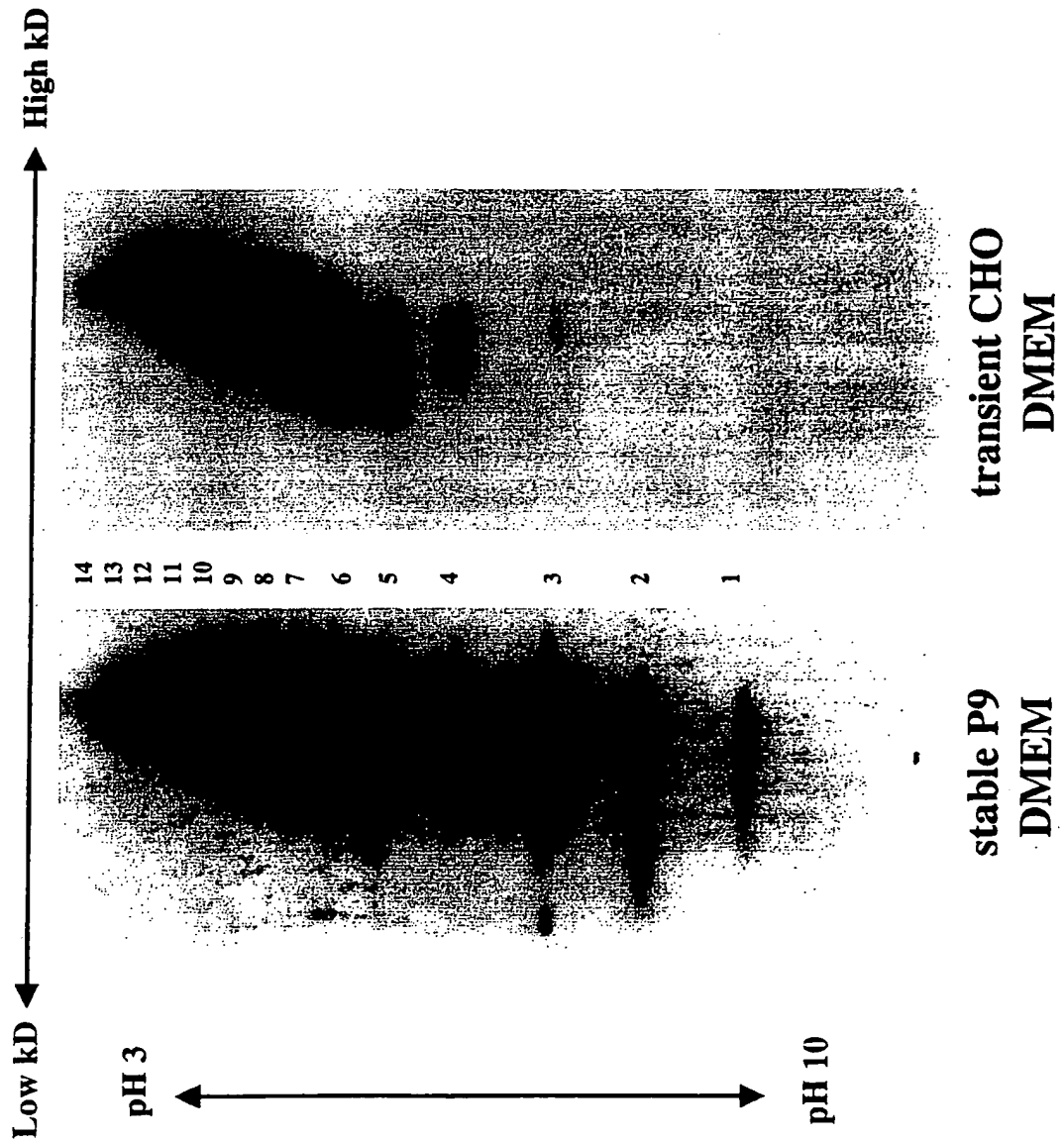
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FIGURE 22B

2D/western blot on recombinant EPO



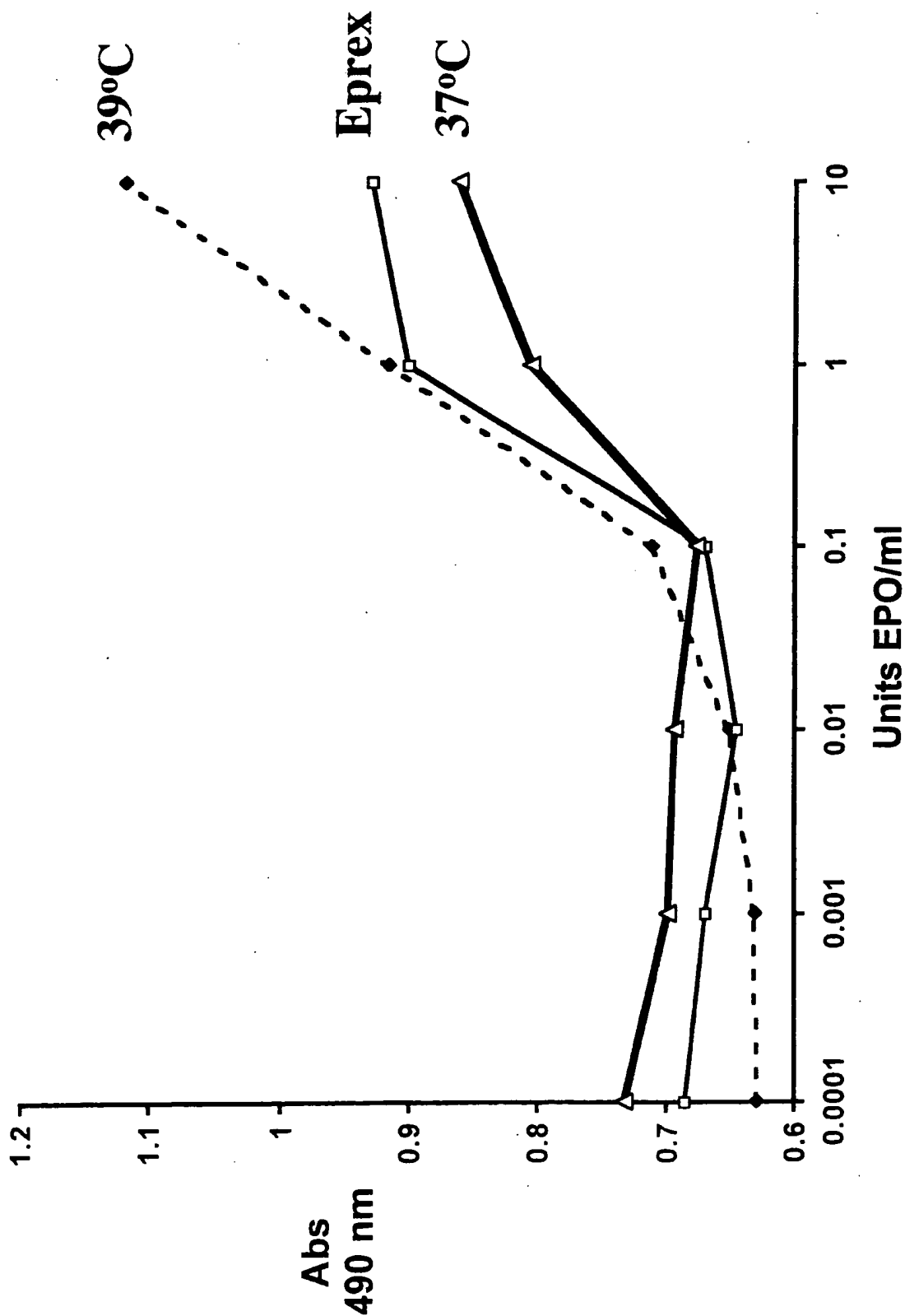


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FIGURE 23





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FIGURE 24

Western blot of transient UBS-54 expression in PER.C6

